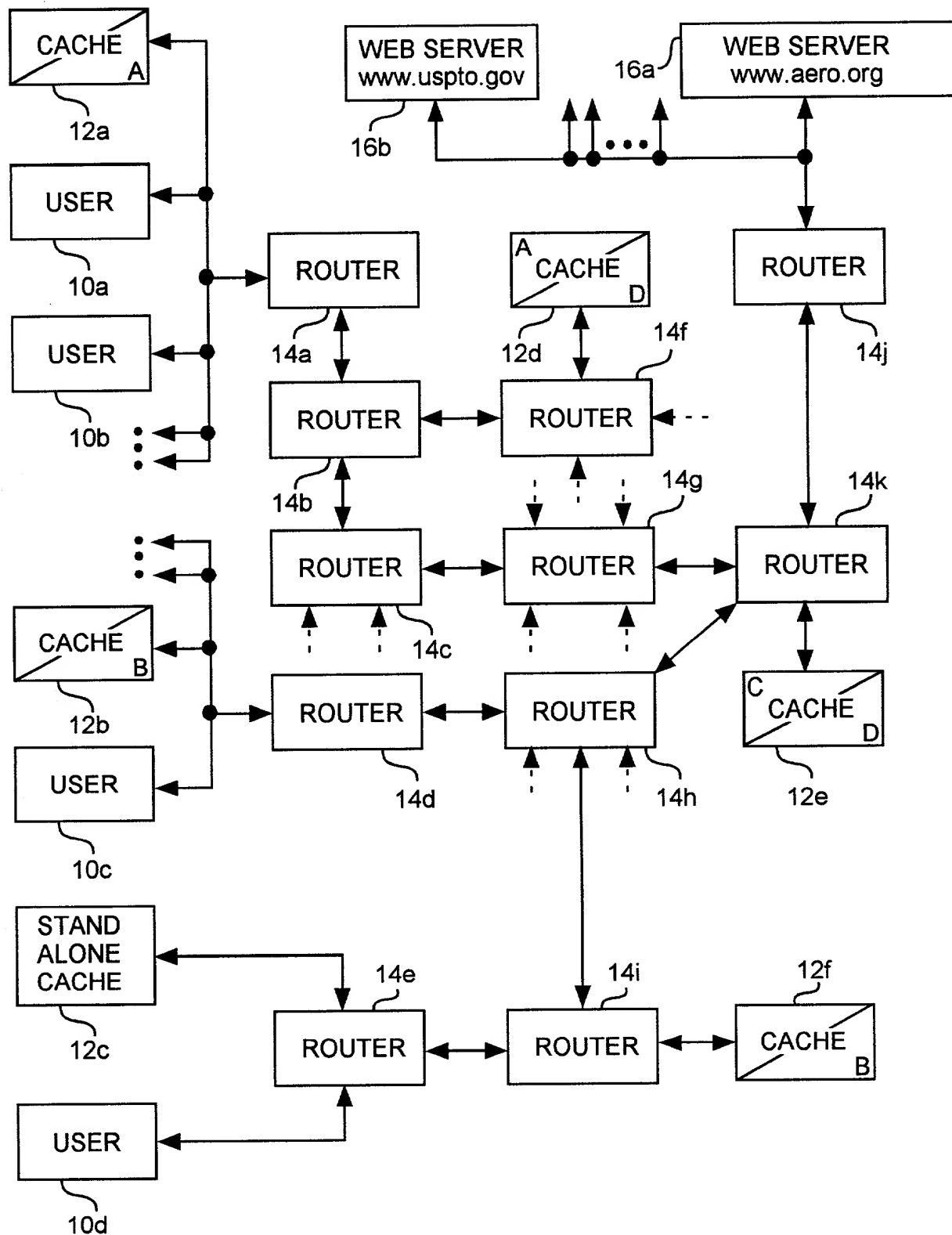
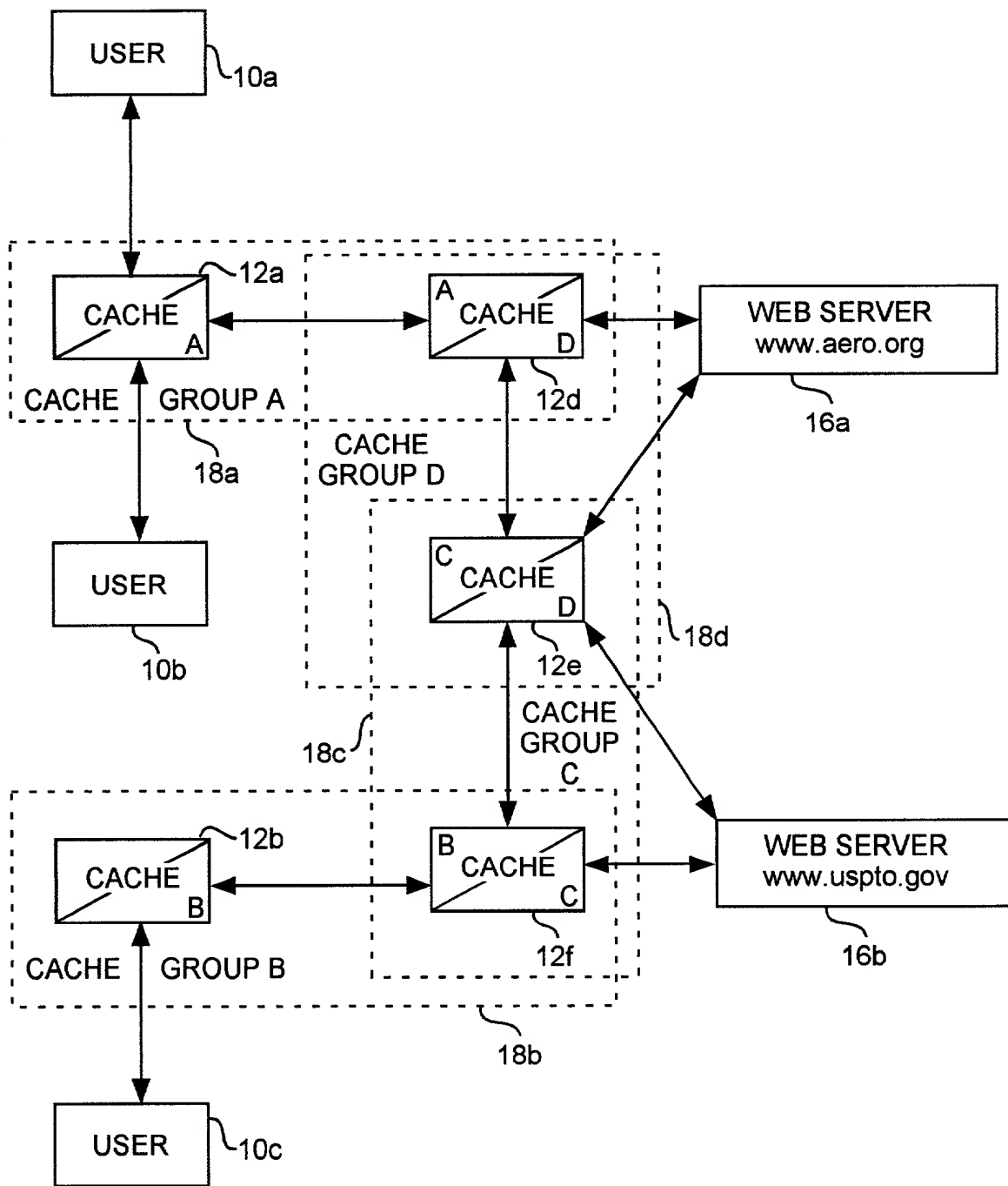


FIG. 1 is a block diagram of a network architecture showing the connections between various components. The components include: 10a, 10b, 10c, 10d (Users); 12a, 12b, 12c, 12d, 12e, 12f (Caches); 14a, 14b, 14c, 14d, 14e, 14f, 14g, 14h, 14i, 14j, 14k (Routers); 16a, 16b (Web Servers); and a Stand Alone Cache. The diagram illustrates the flow of data and the interconnections between these elements.

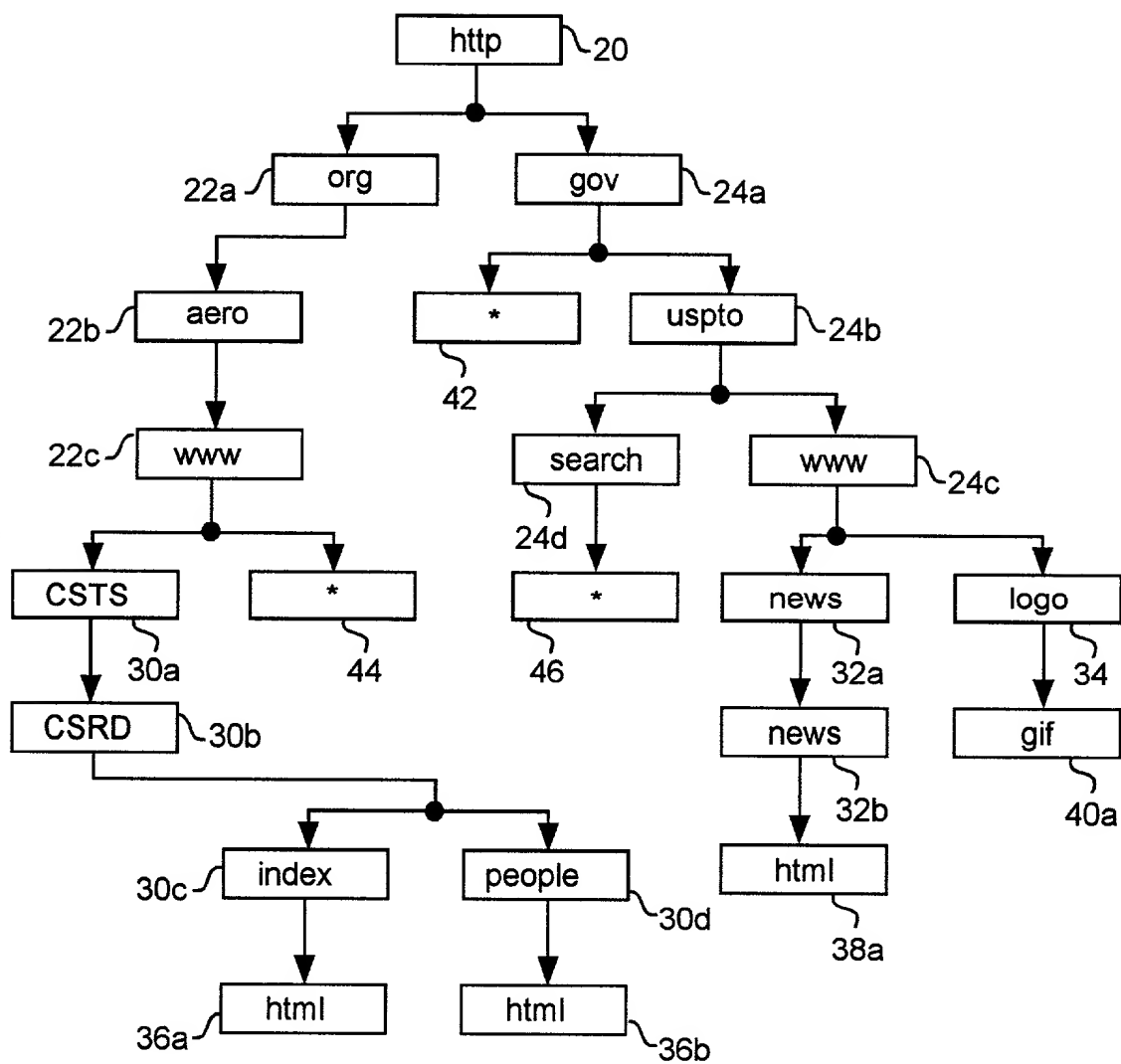


USER CACHE ROUTER AND WEB SERVER NETWORK
FIG. 1



APPLICATION-LEVEL NETWORK

FIG. 2



UNIVERSAL RESOURCE LOCATOR DECOMPOSITION TREE

FIG. 3

Hash Code	Component	Value
h1	http	0003df9d
h2	org	00074bea
h3	aero	00074587
h4	www	0006a081
h5	CSTS	000785e2
h6	CSRD	000424c2
h7	people.html	000465dc

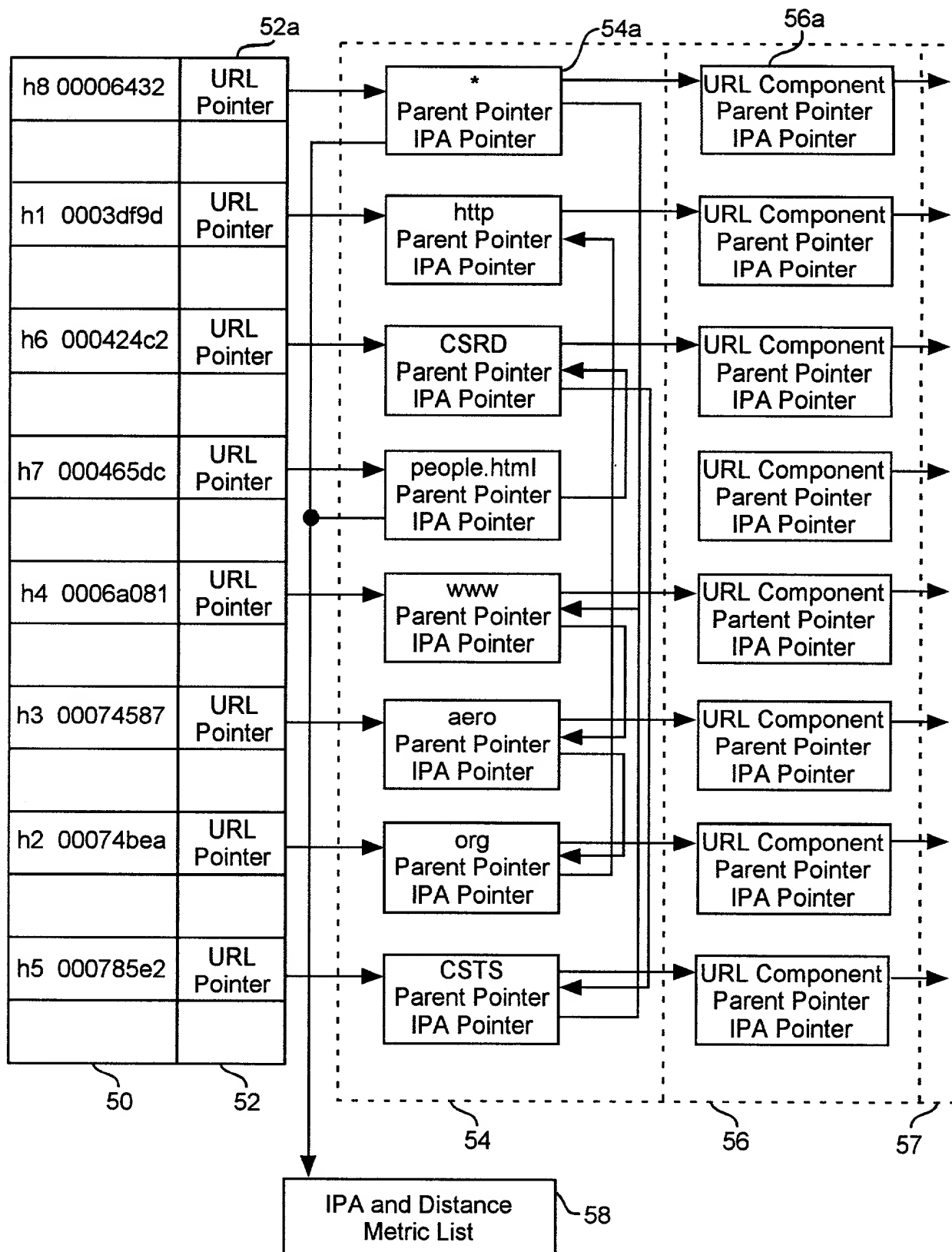
UNIVERSAL RESOURCE LOCATOR COMPONENT
HASH CODE VALUE TABLE

FIG. 4A

Hash Code	Component	Value
h1	http	0003df9d
h2	org	00074bea
h3	aero	00074587
h4	www	0006a081
h8	*	00006432

UNIVERSAL RESOURCE LOCATOR WILDCARD
COMPONENT HASH CODE VALUE TABLE

FIG. 4B



UNIVERSAL RESOURCE LOCATOR FORWARDING TABLE

FIG. 5

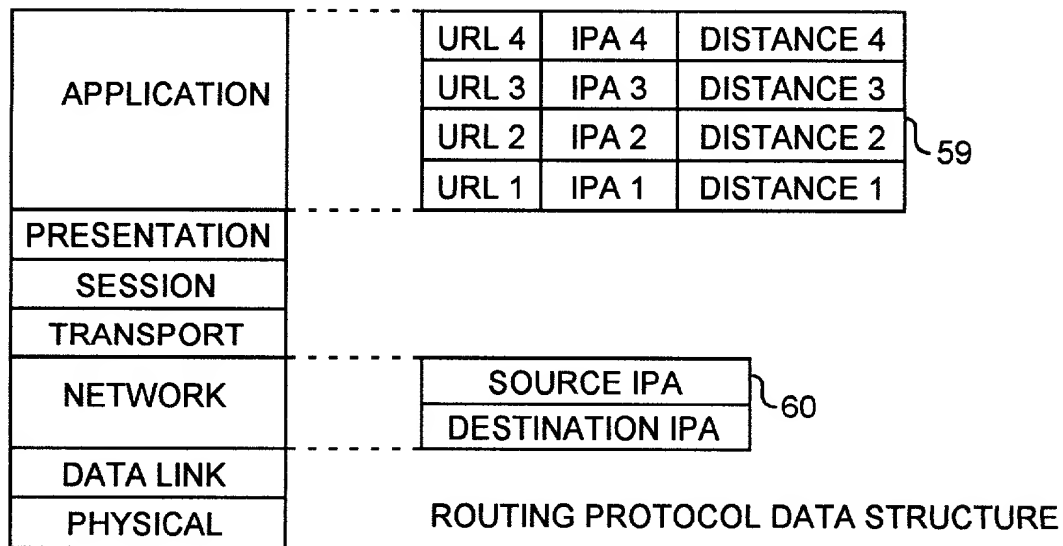
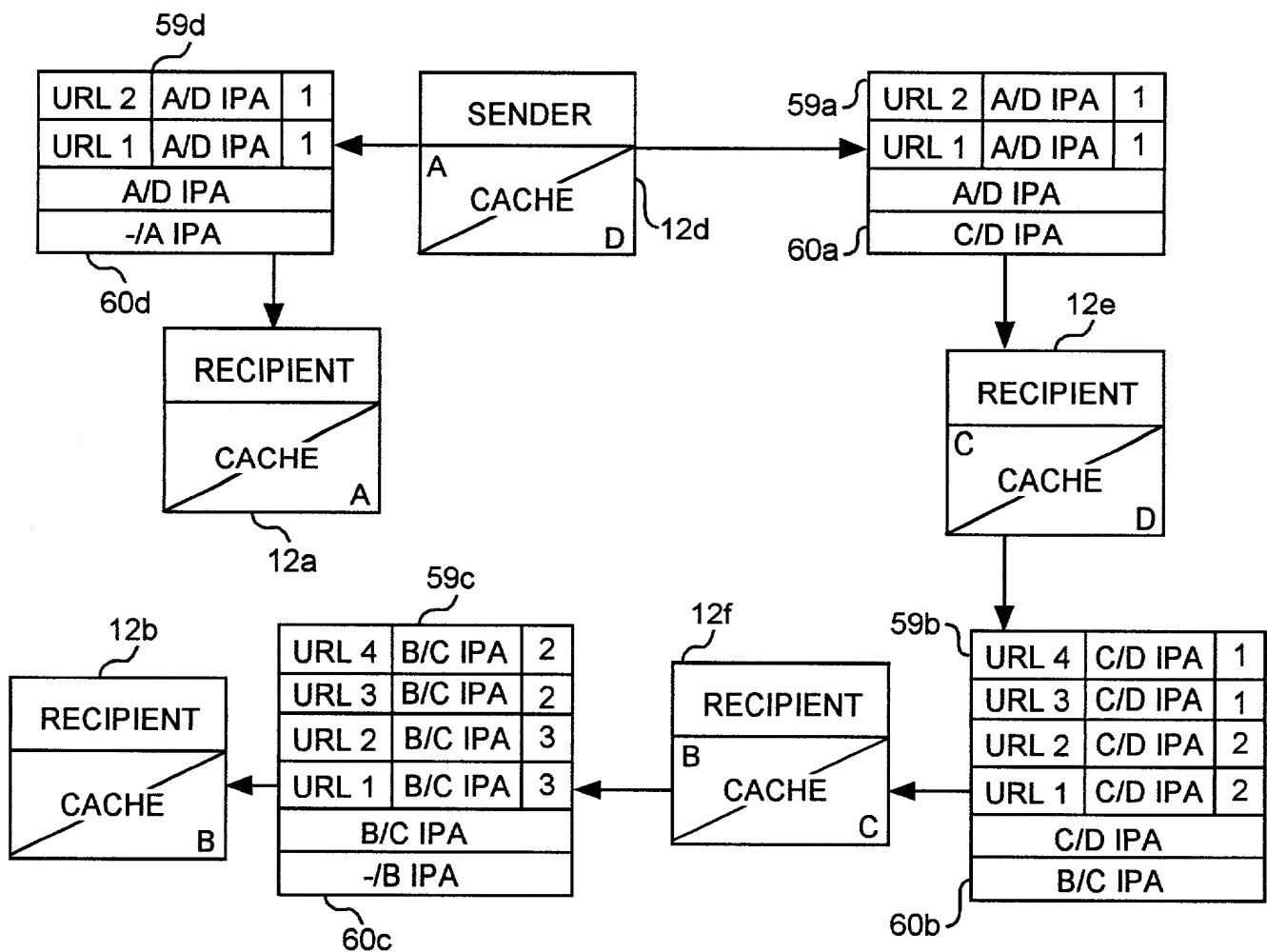
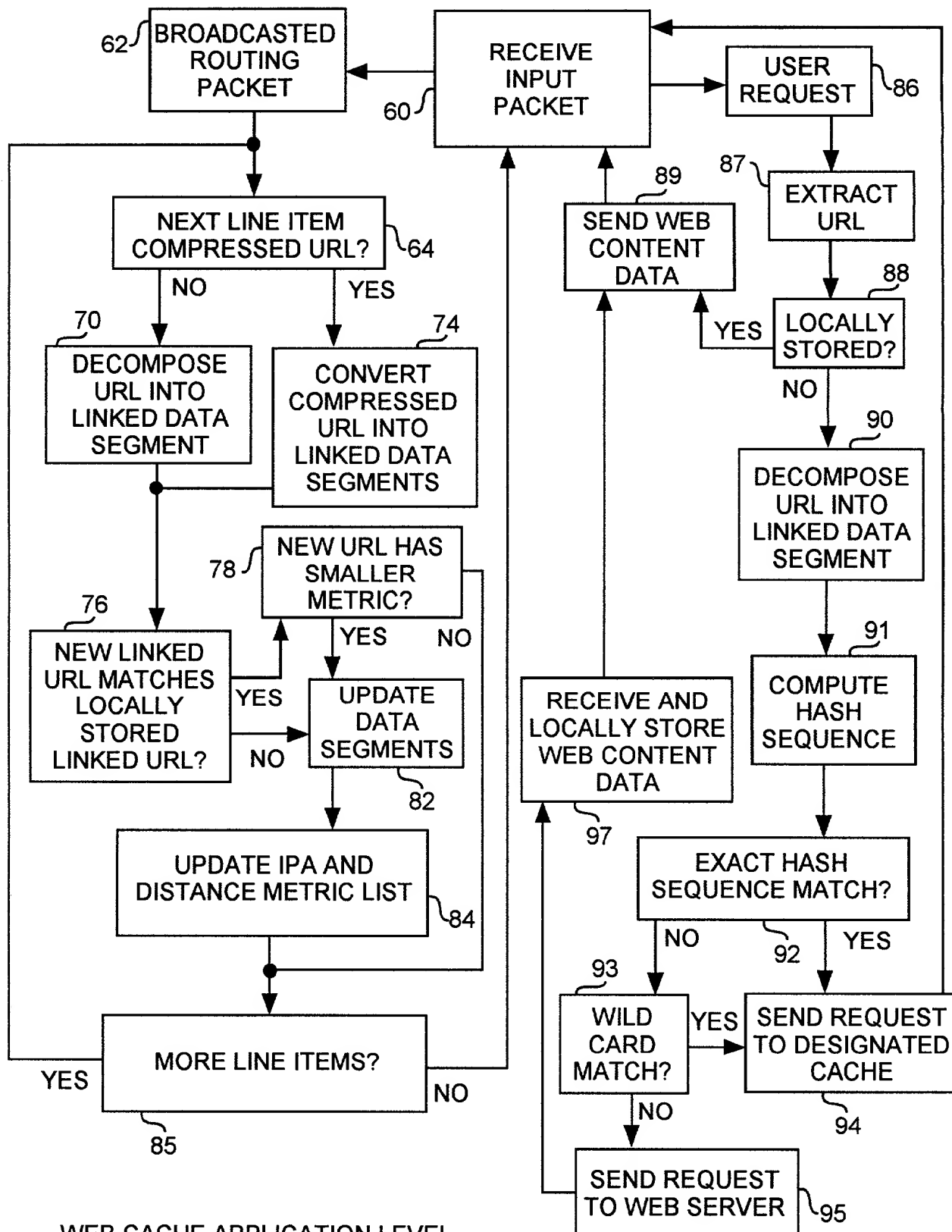


FIG. 6A



ROUTING PROTOCOL MESSAGE SEQUENCE

FIG. 6B



WEB CACHE APPLICATION LEVEL
ROUTING AND FORWARDING PROCESS

FIG. 7